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I, JULIE BILLINGSLEY, TEAM LEADER EXAMINATION SUPPORT AND SALES hereby certify that annexed is a true copy of the Provisional specification in connection with Application No. PS 3093 for a patent by JOHN PHILIP GRIFFITS as filed on 21 June 2002.



WITNESS my hand this
Twenty-seventh day of June 2003

JULIE BILLINGSLEY
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SUPPORT AND SALES

**PRIORITY
DOCUMENT**

SUBMITTED OR TRANSMITTED IN
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Title:
Garments that Automatically Disrobe in Response to Remote Control Means.

Introduction:

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The present invention seeks to describe, as a non-limiting objective, means to remove and/or assist removal of garments from a model (for example, a human) using automated means. The automated means preferably includes electronic and/or mechanical means. Said removal may be under the influence of one at least:-

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- remote means; and/or
- timed means; and/or
- event type and/or event frequency means;

as non-limiting examples.

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Substantial novelty appeal is expected from a means that permits a person to have their partner dressed in garments (eg bra and/or panties, and/or dress) that in part at least, may come undone and/or fall off, in response to a voice command and/or other remote means.

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- Said other remote means may include as a non-limiting example, a remote device that includes:-
 - a microprocessor means, and/or
 - means to output R/F and/or optical (that may include I/R frequencies) signals, wherein said signals influence automated means coupled to one at least garments.

The means of the invention are preferably not limited to novelty means and preferably may have practical applications in part at least.

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The means of the invention are preferably not limited to application with garments and preferably may have application with any other means that uses part at least of the means described for the invention. A non-limiting example may be the automated and/or remote controlled illumination of part at least of a nametag (eg, as used in conventions).

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- Said illumination is preferably by chemical light means and/or electrical light means (eg, LED's).
- Said nametag preferably may be coupled to one at least garments.
- Said nametag preferably may be incorporated, in part at least into one at least decorative means described later in this document.

Prior Art:

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US Patent Application 20020042937, Green, Alison Titled: Garment secured by lock and garment closure system and method.

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Said 20020042937 (also referenced as the *Green Application*) describes a method wherein an article of clothing has at least one closure that is secured with a lock, with said at least one closure being positioned such that opening the closure causes the article to fall away from the wearer's body.

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Said *Green Application* is incorporated into this document in its entirety by way of reference. The present invention preferably may be applied, in part at least, to any part at least of the method and/or means and/or apparatus and/or design and/or drawing of said *Green Application*.

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Said *Green Application* describes a method and apparatus that purportedly adds to the novelty of removing clothing by requiring one at least persons to unlock one at least locks in order to remove said clothing. The novelty is clearly dependent on the fact that a key (or equivalent) is required to unlock said lock. To quote from their application '*as used herein, the term "lock" means any first device that can be used to secure a closure and that requires a second device or piece of information (a "key") to be opened.*' Furthermore the first claim of said application, claims:- '*An article of clothing having at least one closure that is secured with a lock, the at least one closure being positioned such that opening the closure causes the article to fall away from a wearer's body.*'

Description of Invention:

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One non-limiting objective of the present invention relates to garment means. In this specification, garment may be interpreted as any type of clothing, non-limiting examples of which may include one at least of:-

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- Male and female underwear, eg
 - Brassieres
 - Women's panties
 - Men's underpants
- Swimming costumes; Pantyhose; Dresses; Skirts; Kilts; Pants (Trousers); Blouses; Socks; Ties/cravats; Sweaters; Belts; Gloves; Suspenders (eg for female stockings and/or braces for male trousers);
- Fancy Dress;

Items used in bondage.

Said garments may be fabricated from any one at least means, non-limiting examples of which may include:- fabrics, synthetics, leather, plastics, glass, cardboard, paper, ceramics, metals.

- 5 The means of the invention preferably may also be applied, in part at least, to other fashion items, non-limiting examples of which may include:-

Shoes; Sandals; Watches; Jewelry; Handbags

The term garment in this specification preferably may be interchanged with said *other fashion items*.

- 10 The use of the term 'Model' in this document may refer to, as non-limiting examples, any person(s) and/or animal(s) and/or manikin(s) and/or robot(s), that may and/or are:-

donning, and/or wearing, and/or removing garments,
as non-limiting examples.

- 15 Garments may be kept in place on a model by the following non-limiting means:-

the linking (preferably using reversible means) of at least one part of a garment to one at least other:-

parts of said garment, and/or
garments.

- 20 Non-limiting examples of said garment linking means (also referenced as GLM) may include clips, clasps, buttons, keyed means (eg. chastity belts, leather apparel) zippers, bows, locks, knots, magnetic couplings, press studs, studs, laces, belts, buckles, velcro, ribbons.

the garment design:-

as non-limiting examples,

garments may be cut in such a way that they may be put on and/or taken off the body without the need for linking means, such as, for example, dresses that are put on and/or taken off over the head.

garments may include means to assist this process, eg elastic in the waist of underwear.

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Reversal of the linking means (eg, undoing one at least buttons) usually require the physical manipulation of the linking means. Said reversal may also be referenced as *unlinking*. Removal of garments usually requires physical manipulation of said garment.

- 35 The prior art usually requires physical manipulation of garments and/or means coupled to garments, to facilitate:-

removal of said garments; and/or
uncoupling, in part at least, of one at least parts of said garment, from:-
one at least other parts of said garment; and/or
one at least other garments.

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Said GLM may be to provide, as non-limiting examples:-

a functional role, non-limiting examples of which may include:-

the zipper on a pair of trousers;
buttons on a shirt;
the clasp on a bra strap;

and/or

a novelty role, non-limiting examples of which may include:-

a portion of the cup of a bra that may be uncoupled from part of said bra and/or removed, to expose part at least of the underlying skin, and/or other means;

a portion of the front and/or back of under-panties that may be uncoupled from part of said panties and/or removed, to expose part at least of underlying body parts and/or other means;

additional GLM's other than those usually essential to the function of said garment, to facilitate the partial and/or complete removal of said garment from the model;

GLM's used for any novelty and/or other means.

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When a model dons a garment that includes GLM's in the unlinked state (eg undone buttons) it is usual practice to manually close said uncoupled GLM's, in part at least (eg, do up the buttons). When a garment is removed from a model, in part at least, it is usual practice to manually unlink any GLM's that require uncoupling.

As a non-limiting objective, the present invention preferably seeks to provide an alternative adventuresome and provocative way of wearing and in particular removing clothing, wherein said clothing may be removed and/or uncoupled in part at least, by remote and/or automated means:-

Non-limiting examples of said remote means preferably may include:-

1. audio means, non-limiting examples of which may include:-

- spoken and/or sung by a human; and/or
- music; and/or
- whistle; and/or
- animal noises; and/or
- mechanical noises; and/or
- telephone tones; and/or
- audio tones;

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and/or

2. image means; non-limiting examples of which may include images of one at least:-

- humans, in part at least; and/or
- faces; and/or
- breasts; and/or
- human reproductive components;

· said components may be in one at least possible states;

as non-limiting examples, said audio and/or image means may include:-

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- live means (eg, human voice and/or song; dog barking); and/or
- electronically generated; and/or
- microphone means; and/or
- speaker means; and/or
- display means; and/or
- image capture means; and/or
- recorded onto and/or played from CD Disc, DVD, Tape, Memory Storage Means, Video tape;

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· non-limiting examples of said memory storage means may include:-

- flash memory, and/or SRAM, and/or DRAM, and/or EEPROM, and/or hard disk;

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· said SRAM and/or DRAM may be battery backed;

and/or

- delivered by telephone; and/or
- delivered by wide area networks; a non-limiting example of which may include the Internet; and/or
- delivered by Intranet; and/or
- delivered by broadcast means, non limiting examples of which may include:-

· television, and/or radio, and/or cable, and/or satellite;

· said cable may include fibroptic and/or coaxial as non-limiting examples;

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said audio means preferably may be delivered to the target means, in part at least, by the following non-limiting methods:-

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· in its natural format, eg sound waves through a conductive medium (eg air); and

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· prior to reaching the target means, said sound waves preferably may be converted in part at least to a secondary format; non-limiting examples of which may include:-

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· wireless, non-limiting examples of which may include:-

· optical, and/or I/R, and/or RF transmissions; and/or

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· wired, non-limiting examples of which may include:-

· electrical conductors and/or fibroptic;

and

· said converted preferably may include analogue and/or digital formats;

and/or

· said converted preferably may be encoded and/or encrypted in part at least;

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said image means preferably may be delivered to the target means, in part at least, by the following non-limiting methods:-

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· as its natural format, eg light waves through a conductive medium (eg air); and

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· prior to reaching the target means, said light waves preferably may be converted in part at least to a secondary format; non-limiting examples of which may include:-

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It is preferable that garments may be held together in part at least, by part at least of the means of the present invention, and/or by prior art means as non-limiting examples, and/or by any other means.

- wireless, non-limiting examples of which may include:-
 - optical, and/or I/R, and/or RF transmissions; and/or
- wired, non-limiting examples of which may include:-
 - electrical conductors and/or fibroptic; and said converted preferably may include analogue and/or digital formats; and/or said converted preferably may be encoded and/or encrypted in part at least; said audio and/or image means, in part at least, preferably may be directly delivered to the target means in a secondary format by the following non-limiting methods:-
 - wireless, non-limiting examples of which may include:-
 - optical, and/or I/R, and/or RF transmissions; and/or
 - wired, non-limiting examples of which may include:-
 - electrical conductors and/or fibroptic; and said secondary format preferably may include analogue and/or digital formats; and said secondary format preferably may be encoded and/or encrypted in part at least; and/or
 - 3. Commands and/or Data Means with said commands and/or data preferably sent to the target means in analogue and/or digital format, preferably by one at least of the following non-limiting means:-
 - wireless, non-limiting examples of which may include:-
 - Visible Light Means; and/or
 - Microwave; and/or
 - I/R; and/or
 - R/F that may include as non-limiting examples:-
 - and/or
 - wired, non-limiting examples of which may include:-
 - fibroptic; and/or
 - coaxial; and/or
 - electrical conductors;
 - and said commands and/or data preferably may be encoded and/or encrypted in part at least.

The garment linking means of the present invention preferably includes one at least GLM's that include (and/or are coupled to) part at least of the means of the present invention. These may be referenced as an *Enhanced Garment Linking Means (EGLM)*. Said EGLM preferably may be constructed to unlink completely and/or in part only, and when unlinked in part only, preferably may be able to further unlink, in part at least, one at least times.

- It is preferable that one at least EGLM is a non-limiting example of said target means of said remote means.
- It is preferable that one at least said EGLM is coupled to part at least of the automated means of the present invention.
- It is preferable that said automated means facilitates unlinking of said EGLM.

- 55 Use of the phrase - '*EGLM may unlink*', and/or the word '*unlink*', and/or the word '*unlinking*', and/or the word '*unlinked*' as non limiting examples, may be interpreted as one at least of:-
 - unlink completely, and/or
 - unlink in part only, and/or
 - when unlinked in part only, may be able to further unlink, in part at least, one at least times; as non-limiting examples.

It is preferable that one at least EGLM is coupled to one at least garments such that unlinking of one at least EGLM's preferably results in:-

- the falling away and/or disrobing of one at least said garments, from one at least models, preferably without the need for manual intervention by the model and/or third parties.

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It is preferable that one at least EGLM is coupled to one at least garments such that unlinking of one at least EGLM's preferably results in:-

- the part at least uncoupling, of part at least, of one at least said garments, from one at least garments, preferably without the need for manual intervention by the model and/or third parties.

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A preferred non-limiting objective of the present invention is to describe a means and apparatus for coupling garments, using an Enhanced Garment Linking Means (EGLM) wherein, part at least of the linking means preferably may be unlinked using remote and/or automated means.

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It is the automated and/or remote, uncoupling and/or removal of garments, that is preferably one at least of the novelty features of the present invention.

It is preferable that said unlinking results in and/or contributes to one at least garments (eg underclothing) coming apart (preferably while being worn) in part at least, and/or falling off the model.

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Furthermore, the present invention preferably does not require a "key" to uncouple the link as it is preferable that there is a manual release that may be used to unlink said link. Clearly a manual release to the locking means described in said *Green Application* would be likely to defeat the purpose of their novelty - why bother with a key when a button may be pushed?

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The present invention preferably allows that said EGLM may be constructed to function as a lock (eg no manual release), however, an EGLM is better considered a means of coupling garments that responds to automated and/or remote processes. The use of one at least EGLM as a lock may be only one non-limiting embodiment of the invention. It is preferable that a mechanical key means may be used to facilitate unlocking of said lock.

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It is preferable that at least one at least EGLM that may not perform a reversible linking function; and/or may perform one at least other functions; and/or may not be in a linking position.

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It is preferable that said EGLM's are of compact size. It is preferable that said EGLM does not interfere with the normal wear and/or fall and/or comfort of garments.

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It is preferable that said EGLM includes one at least integrated circuit, preferably custom designed (eg ASIC and/or programmable logic, and/or standard cell).

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It is preferable that said remote means includes one at least integrated circuit, preferably custom designed (eg ASIC and/or programmable logic, and/or standard cell).

It is preferable said EGLM may uncouple in response to one at least remote means and one at least EGLMS preferably include unlinking means that respond to:-

- remote means; and/or

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•means coupled to and/or within said EGLM.

As a non-limiting example, one at least EGLM may uncouple, in part at least, in response to one at least timing means, coupled to said EGLM.

- For example, an electronic clock means, that is preferably a realtime clock and/or calendar means may be used to control and/or signal and/or otherwise indicate that part at least, of one at least EGLM, may uncouple in part at least.

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- It is preferable that said clock/calendar has a power means, eg battery and/or capacitor.

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It is preferable that there is a means to program said EGLM and/or means coupled to said EGLM, with one at least means to indicate when said EGLM should unlink, in part at least.

As a non-limiting example,

- one at least time periods that said EGLM is to unlink, preferably may be programmed into means coupled to said EGLM.

and/or

- one at least remote events and/or internal events that may be required for said EGLM to unlink, preferably may be programmed into means coupled to said EGLM.

It is preferable that one at least EGLM includes one at least means to receive and/or process and/or decode and/or decrypt one at least of the non-limiting examples of remote means previously described in this document.

5 Said remote means preferably may act directly on one at least EGLM's and/or indirectly on one at least EGLM's.

Non-limiting examples of said indirect means may include said remote means:-

- controlling a first Garment Linking Means and said first EGLM then controlling the uncoupling of one at least second EGLM's;
- controlling a means that controls one at least EGLM's.

10 It is preferable that the means used by one at least first EGLM to communicate with one at least second EGLM preferably may include, as non-limiting examples, any one at least means described for a remote means to communicate with one at least EGLM.

15 It is preferable that the means used by one at least second EGLM to receive information from one at least first EGLM preferably may include, as non-limiting examples, any one at least means described for one at least EGLM to receive information from one at least remote means.

It is preferable that there is a protection means to restrict and/or prevent the unauthorised unlinking of one at least:-

- 20
- EGLM; and/or
 - EGLM by remote means; and/or
 - EGLM by automated means.

It is preferable that said protection means is coupled to one at least EGLM.

It is preferable that said protection means includes a password means.

25 It is preferable that there is a transfer means for external means (a non-limiting example may be said remote means) to read command and/or control and/or data means from one at least EGLM.

• It is preferable that said external means may send a signal means to one at least EGLM requesting activation of said transfer means.

• It is preferable that said activation request may be blocked by manual and/or automated means.

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- Said blocking is preferably by means coupled to said EGLM.

The present invention preferably may be applied in part at least, to one at least prior art GLM's. It is preferable that said GLM may be unlinked using their traditional means and/or by using automated and/or remote means. Non-limiting examples may include one at least of:-

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- A motor (preferably small) may drive a zipper up and/or down, preferably in response to automated and/or remote commands; and/or

• A magnetic coupling may be made to uncouple by means that remove the magnetism, in part at least, with said removal preferably in response to remote means; and/or

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- A press-stud coupling may be made to release by a means that is activated to propel said couplings apart - said activated is preferably in response to remote means; and/or

• A button may be made to come undone either by:-

- undoing it using conventional means; and/or
- coupling and/or incorporating part at least of an EGLM to a button means, such that part at least of the button is released and/or deformed using a means that allows a first part of a garment to separate from a second part; as a non-limiting example.

45 It is preferable that as non-limiting examples:-

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- locks; and/or
 - facsimiles and/or replicas of locks (that may include, as non-limiting examples, any of the locks described in said Green Application); and/or
 - any other decorative and/or functional means;
- collectively referenced as *Decorative means*, may be coupled to said EGLM.

55 It is preferable that said coupled may be by:-

- attaching said decorative means(s) to said manual release means; and/or
 - designing said manual release means as said decorative means(s); and/or
 - one at least decorative means that fits over said EGLM, in part at least; and/or
 - one at least decorative means that couples magnetically to said EGLM;
- as non-limiting examples.

60 It is preferable that part at least, of one at least EGLM may resemble one at least decorative means.

It is preferable that part at least, of one at least EGLM may be a lock, non-limiting examples of which may include one at least of those described in the Green Application.

5 It is preferable that part at least of said decorative means and/or EGLM's may resemble, and/or be scale versions, and/or be functional:-

- handcuffs, and/or
- padlocks, and/or
- combination locks

as non-limiting examples.

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The invention preferably allows for one at least garments that includes one at least EGLM's and/or GLM's:-

- that may resemble, and/or be scale versions, and/or be functional:-

- handcuffs, and/or
- padlocks, and/or
- combination locks

as non-limiting examples.

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A mechanical key means (that may be functional) preferably may be coupled to said decorative means.

20 Referenced as a *Variable Decorative Means*, it is preferable that one at least EGLM may have its appearance varied, preferably after manufacture and/or distribution and/or sale and/or purchase; and

said variation is preferably able to be implemented by the model and/or third parties. Non-limiting means of varying said appearance may include:-

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- uncoupling a first decorative and/or functional means and coupling a second decorative and/or functional means; and/or
- adding a decorative and/or functional means; and/or
- removing a decorative and/or functional means;

to and/or from said EGLM.

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The *Green Application* does not describe a means for changing the appearance (for example, changing the appearance from a padlock to a combination lock) of one at least locking devices. Those knowledgeable in the art may and/or should be able to adapt and/or use part at least of the means of the present invention, to provide a means for varying the appearance of the locking means of said *Green Application*. As such, the present invention preferably includes the means of varying the appearance of the locking means of the *Green Application*.

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The prior art does not describe a means for changing the appearance of a Garment Linking Means from a first appearance to a second appearance. Those knowledgeable in the art may and/or should be able to adapt and/or use part at least of the means of the present invention, to preferably provide a means for varying the appearance of one at least Garment Linking Means. As a non-limiting example, said appearance may resemble one at least locks.

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Referenced as a *garment illumination means*, it is preferable that one at least EGLM (and/or means coupled to said EGLM and/or means coupled to one at least garments that interface to said EGLM) illuminates and/or may be made to illuminate, in part at least. Non-limiting examples of said *illumination means* may include:-

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- glow in the dark means (eg. using rare earth means); and/or
- chemical light means; and/or
- electrically generated light means (eg. LED's, and/or LCD's, and/or incandescent means, and/or electro-luminescent means, and/or light emitting plastics).

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It is preferable that said illumination may be made to illuminate and/or extinguish under the influence of one at least remote and/or automated means. Said remote and/or automated means may include, in part at least, those described for the present invention.

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It is preferable that said illumination means may be coupled to said decorative means, in part at least; and/or any other means described for the invention; and/or to any other means.

It is preferable that said illumination means may, in part at least, be coupled to said EGLM and/or garment after manufacture of said EGLM and/or garment.

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- Including part at least of said illumination means within said decorative means may provide one non-limiting method of said coupling after manufacture.

Referenced as a *garment acoustic means*, it is preferable that one at least:-

EGLM (and/or means coupled to said EGL, and/or means coupled to one at least garments that interface to said EGLM) emits sound and/or may be made to emit sound, in part at least. Non-limiting examples of said acoustic means may include:-

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 - speaker means; and/or
 - piezo-electric means.

It is preferable that said acoustic means may be made to emit sound and/or stop emitting sound under the influence of one at least remote and/or automated means. Said remote and/or automated means may include, in part at least, those described for the present invention.

10 It is preferable that said acoustic means may be coupled to said decorative means, in part at least; and/or any other means described for the invention; and/or to any other means.

15 It is preferable that said acoustic means may, in part at least, be coupled to said EGLM and/or garment after manufacture of said EGLM and/or garment. Including part at least of said acoustic means within said decorative means may provide one non-limiting method of said coupling after manufacture.

20 It is preferable that one at least EGLM is coupled to one at least image detection and/or capture means and/or means to process said captured image information. A non-limiting example of said image detection means may include one at least of National Semiconductors CMOS Image Sensors.

It is preferable that the means of the present invention may be used, in part at least, in one at least of the following non-limiting examples of entertainment means:-

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- cinema and/or television production, commercials, live stage shows (indoor and/or outdoor);-
- as a non-limiting example, a model dressed in garments that, in part at least, may progressively come undone in response to remote signals may provide a novel, and/or unique, and/or entertaining, and/or useful means to one at least movies, television shows, commercials.

30 It is preferable that the means of the present invention may be used, in part at least, during a party and/or dance (and/or similar means). As a non-limiting example a party and/or dance means preferably includes a predetermined and/or random sequence of codes to concurrently and/or sequentially unlink EGLM's on garments on one at least models, over one at least periods of the party and/or dance. Said unlinking preferably may be influenced by means coupled to one at least EGLM.

35 It is a non-limiting preferable objective of the present invention to include a means wherein, entertainment delivered from a preferably remote source preferably may be used to influence the uncoupling of one at least garments.

- As a non-limiting example, audio and/or video from a CD, and/or video, and/or DVD, and/or TV, and/or cable, and/or Internet; preferably may be an audio and/or video source that may unlink one at least EGLM.

40 It is a non-limiting preferable objective of the present invention to include a means wherein the Internet preferably may be used to control the unlinking of EGLM. As a non-limiting example, Internet chat rooms and/or email and/or web pages may send one at least signals to unlink one at least EGLM at one at least locations. As non-limiting examples, said signals may include audio and/or image means.

45 It is a non-limiting preferable objective of the present invention to include the method and/or process and/or apparatus of :-

- manufacturing one at least EGLM's and/or remote means, in one at least locations; and/or
- manufacturing and/or modification of one at least garments such that it may be, and/or is coupled to one at least EGLM's; and/or
- interfacing part at least, of one at least garments, to one at least EGLM's.

50 It is a non-limiting preferable objective of the present invention to include the method of providing:- conversion means for prior art garments to the means of the present invention;

- said conversion means may include instructions.
- said conversion means may include means to connect said garment to the means of the present invention.

55 It is a non-limiting preferable objective of the present invention to include the method of using of one at least EGLM's, in one at least games. Said game may include games of chance and/or skill. Said game may include a means to deliver alcoholic beverages. Said games may include the progressive removal of clothing, preferably using the means of the present invention.

60 Said removal is preferably in response to various games of chance and/or skill.

It is a non-limiting preferable objective of the present invention to include the method and/or process of advertising and/or promoting one at least:-

- EGLM's and/or remote means; and/or

garments that include one at least EGLM's; and/or
garments for use with one at least EGLM'; and/or
garments that may be uncoupled by remote control; and/or
means (that may include instructions) to couple garments to EGLM's; and/or
adapting one at least garments for use with the means of the present invention; and/or
instructions on how interface at least one part of a garment to at least one EGLM; and/or
instructions on the use of any part of the invention; and/or
any part at least of the means of the present invention.

Said advertising may include television, cinema and printed matter as non-limiting examples.

It is a non-limiting preferable objective of the present invention to include the process and/or method, of ordering, and/or selling (that may include sale, and/or hire, and/or rental and/or leasing, as non-limiting examples) and/or exporting, and/or importing, and/or transporting:-

from a first jurisdiction to one at least second jurisdiction, and/or from a first location to one at least second locations, of one at least:-

EGLM's and/or remote means; and/or
garments that include one at least EGLM's; and/or
garments for use with one at least EGLM'; and/or
garments that may be uncoupled by remote control; and/or
means to couple garments to EGLM's; and/or
adapting one at least garments for use with the means of the present invention; and/or
instructions on how interface at least one part of a garment to at least one EGLM;

and/or

instructions on the use of any part of the invention; and/or
any part at least of the means of the present invention.

It is a non-limiting preferable objective of the present invention to include the process and/or method of washing and/or cleaning and/or pressing, and/or hanging, and/or storing one at least:-

EGLM's; and/or
garments that include one at least EGLM's; and/or
garments for use with one at least EGLM'; and/or
garments that may be uncoupled by remote control; and/or
means to couple garments to EGLM's; and/or
garments that may be used with the means of the present invention.

It is a non-limiting preferable objective of the present invention to include the method of donning and/or wearing and/or removing garments that include the means of the present invention.

It is a non-limiting preferable objective of the present invention to include the process and/or method of coupling one at least prior art garment linking means and/or one at least EGLM to facilitate wearing of one at least garments that includes means of the present invention.

It is a non-limiting preferable objective of the present invention to include the process and/or method of uncoupling one at least prior art couplings and/or one at least EGLM, to facilitate the disrobing of one at least garments that includes means of the present invention.

As previously described, one non-limiting preferable objective of the present invention may be to use EGCM's in locations that facilitate the donning and/or removal of garments. This preferably includes functional and/or novelty means. It is another non-limiting preferable objective of the present invention to include means, wherein said EGCM's may be used more extensively as an integral-interconnect of garment components. As a non-limiting example, a garment may be composed of a plurality of geometric shapes that may include as non-limiting examples:-

circles, and/or squares, and/or rectangles, and/or ovals, and/or triangles, and/or polygons;

and

one at least geometric shapes may be coupled along one at least axes to one at least other geometric shapes. Said coupling may include part at least of the means described for an EGLM. For example, a dress may be constructed from said geometric shapes (in part at least) and under the influence of a remote means, made to uncouple, concurrently and/or sequentially.

In an environment where plural persons may have one at least components of their garments falling into a collective environment (eg, a dance floor), it is preferable that there is a means to facilitate restoration of said garment components to their owners. It is a non-limiting objective of the present invention to preferably include the method of :-

•registering ownership and/or identification of said parts (eg by electronically reading electronic ID within one at least EGLM); and/or

- electronic means used in the storage of said garment components; and/or
- electronic means in the return of said garment components.

5 It is a non-limiting preferable objective of the present invention to include the method and/or apparatus of protecting electronics and/or mechanical means of the invention from the washing/cleaning process, for example, protection against water and/or solvents.

10 It is preferable that the means of the present invention may be applied, in part at least, to other means. Said other means preferably may be made to operate in conjunction with the garment means of the present invention. As a non-limiting example, this may include furnishings; and/or lighting; and/or sound; and/or tableware (eg, candles); dispensing and/or consuming alcohol; and/or dispensing and/or consuming food (eg candy, chocolates); and/or money (and/or other valuables).

Preferred Embodiment of the Invention.

15 Reference to the drawings may assist in understanding the following description of the preferred embodiment.

The first part of the description references Figure 1 of the drawings that shows some non-limiting embodiments of EGLM's.

20 One non-limiting objective of the preferred embodiment seeks to describe an EGLM. Non-limiting examples of said EGLM are shown as 1a, 1b and 1c of Figure 1 of the drawings. Said EGLM may be constructed from any means, with the preferred method using plastic (preferably injection moulded), in part at least.

25 It is preferable that one non-limiting function of said EGLM is to couple one at least parts of one at least garments, to one at least other parts of said garment and/or to one at least other garments. Said coupling usually requires the physical association of said coupled parts of the garment(s) with one at least EGLM.

In order to allow the garment parts to subsequently unlink, it is usual for one at least parts of said garment(s) to dissociate from said EGLM and/or for said EGLM to uncouple, in part at least.

30 The preferred means of facilitating this objective is to couple one at least EGLM's (1a, 1b, 1c), to one at least parts of one at least garments (10a, 10b, 10c, 10d, 10e, 10f) by one at least attachment means (2a, 2b, 2c, 6a, 6b).

Non-limiting examples of said attachment means may include:-

- *Type One Fixed Attachment Means*, wherein one at least parts of one at least garment(s) (10a, 10b) are preferably physically coupled to one at least attachment means (3a, 3b), and said attachment means are preferably fixed to one at least EGLM 1a. Non-limiting examples of said attachment means may include:-
 - moulding one at least plastic rings 3a into the case of one at least EGLM 1a; and/or

- embedding (eg, during manufacture) one at least metallic rings 3b into the plastic case of one at least EGLM 1a;

- said physically coupled preferably refers to means that are not usually readily reversibly detachable;

- non-limiting examples of said physical coupled preferably may include the sewing (eg by thread) 3a of part of a garment 10a to said attachment means 2a and/or the coupling by adhesive means (that may include thermal processes) 3b of part of a garment 10b to attachment means 2b.

45 One non-limiting means of permitting said coupled garment parts to separate, may be to have the means of the present invention facilitate the separation of part at least of said EGLM 1a along the line 5, as a non-limiting example. In other embodiments said EGLM 1a may not separate.

and/or

- *Type Two Fixed Attachment Means*, wherein one at least parts of one at least garments 10c are preferably reversibly physically coupled to one at least attachment means 2c, and said attachment means are preferably fixed to one at least EGLM 1b. Non-limiting examples of said attachment means may include:-
 - moulding one at least plastic rings 3c into the case of one at least EGLM 1b; and/or

- embedding (eg, during manufacture) one at least metallic rings (not shown) into the plastic case of one at least EGLM 1b;

- said reversibly physically coupled preferably refers to means that are usually reversibly detachable.

- non-limiting examples of said reversibly physically coupled may include a clasp means 7b that preferably may be manually clipped onto said attachment means 2c and subsequently preferably unclipped manually.

60 and/or

- 5 • *Type One Reversible Attachment Means*, wherein one at least parts of one at least garments (10d, 10f) are preferably physically coupled to one at least attachment means (6a, 6b) and said attachment means (6a, 6b) preferably may be unlinked from one at least EGLM (1b, 1c). Said unlinking is preferably in response to one at least remote and/or automated means. Said attachment means 6a is preferably temporarily coupled to said EGLM 1b, 1c. A non-limiting preferred means of said temporarily coupled preferably includes the insertion (in part at least) of one at least attachments (6a, 6b) into one at least *attachment receptacle means* 8;

- 10 • said physically coupled preferably refers to means that are not usually readily reversibly detachable;
• non-limiting examples of said physical coupled preferably may include the sewing (eg by thread) 7a of part of a garment 10d to said attachment means 6a and/or the coupling by adhesive means (that may include thermal processes) 7c of part of a garment 10f to attachment means 6b.

and/or

- 15 • *Type Two Reversible Attachment Means*, wherein one at least parts of one at least garments 10e are preferably reversibly physically coupled to one at least attachment means 6c, and said attachment means 6c preferably may be unlinked from one at least EGLM 1c. Said unlinking is preferably in response to one at least remote and/or automated means. Said attachment means 6c is preferably temporarily coupled to said EGLM 1c. A non-limiting preferred means of said temporarily coupled preferably includes the insertion (in part at least) of one at least attachments 6c into one at least *attachment receptacle means* 8;

- 20 • said reversibly physically coupled preferably refers to means that are usually reversibly detachable;
• non-limiting examples of said reversibly physically coupled may include a clasp means 7d that preferably may be manually clipped onto said attachment means 6c and subsequently preferably unclipped manually.

25 and/or

Type Three Reversible Attachment Means and/or *Type Four Reversible Attachment Means* (see below).

30 It is preferable that one at least reversible attachment means includes one at least *garment coupling facilitator means* (GCFM) 46 to assist coupling of garment means to attachment means. A non-limiting example of said GCFM 46 may include the moulding of an open loop 46 into one pole of one at least reversible attachment means (6a, 6b, 6c). Non-limiting examples of how said GCFM 46 may facilitate coupling may include, as non-limiting examples, being able to pass part of one at least garments, and/or thread and/or adhesive through said GCFM.

35 Reference to Figure 2 of the drawings may assist understanding the next part of the description of the preferred embodiment.

It is preferable that EGLM may be any shape.

It is preferable that the number of fixed and/or reversible attachment means that may be coupled to one at least EGLM is not limited.

40 It is preferable that the shape and/or design of one at least EGLM is not limited.

It is preferable that the number of surfaces of one at least EGLM that attachments may be linked to is not limited.

It is preferable that the number attachments that may be linked to any one at least surface of one at least EGLM is not limited.

45 • A non-limiting example of one at least EGLM 1d is shown in 13a of Figure 2. said EGLM 1d is triangular in shape with a linked attachment means (6a, 6a, 6b) coupled one to each side of the triangle.

50 A non-limiting preferred attachment means of the present invention preferably includes *Type Three Reversible Attachment Means*, wherein, one at least parts, of one at least garments preferably are coupled to one at least EGLM by a garment restraining means that preferably does not require physical attachment of one at least garment parts to an attachment means.

55 • A non-limiting example of said Type Three Reversible Attachment Means is shown in 13b and 13c of Figure 2 of the drawings. One at least parts of one at least garments 10f are preferably physically coupled to one at least EGLM 1e, that preferably includes one at least receptacle means 8. One at least parts of one at least garments 10g preferably includes an opening 11 (as a non-limiting example, a prior art buttonhole). One at least reversible attachment means 6d are preferably placed through one at least openings 11, preferably by inserting cylindrical means 12 of said attachment means 6d through said opening 11 and preferably temporarily linking said cylindrical means 12 to receptacle means 8. An expanded view of this arrangement is shown in 13 b and a cross section view is shown in 13c.

60 It will be appreciated that in the preceding non-limiting example, that the attachment means 6d may be misplaced/lost when it is unlinked from the EGLM 1e. It is preferable that there is an attachment restraining means to prevent said misplacing and/or loss. A non-limiting means is shown in 13c

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wherein, a thread 14a is coupled at one end to garment part 10g at location 14b, and the other end of the thread is coupled to the attachment means 6d at location 14. It will be appreciated that the non-limiting example of 13c may be used as a prior art button - the attachment means 6d when linked indirectly to garment part 10f via EGLM 1e may be considered as a button coupled to said garment part 10f, and garment part 10g may be considered the part of a prior art garment held in place by one at least buttons. The garment part 10g preferably may be manually undone by stretching buttonhole 11 over the button (in this case attachment 6d). As a non-limiting example, one at least garments preferably may have a plurality of the arrangement shown in 13c that preferably may act, in part at least as buttons, and in part at least as the means of the present invention.

15 A non-limiting preferred attachment means of the present invention preferably includes *Type Four Reversible Attachment Means*, wherein, one at least parts, of one at least garments preferably are coupled to one at least EGLM by a garment restraining means that preferably does not require physical attachment of one at least garment parts an attachment means and preferably does not require physical attachment of one at least garment parts to one at least EGLM.

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- A non-limiting example of said Type Four Reversible Attachment Means is shown in 13d of Figure 2 of the drawings. One at least parts of one at least garments 10f and one at least parts of one at least garments 10g preferably includes an opening 11a (as a non-limiting example, prior art buttonholes). One at least reversible attachment means 6d are preferably placed through openings 11a, preferably by inserting cylindrical means 12 of said attachment means 6d through said openings 11a and preferably temporarily linking said cylindrical means 12 to receptacle means 8 (not shown) of EGLM 1. Said EGLM 1 is preferably not physically coupled the garment.

25

It will be appreciated that in the preceding non-limiting example, that the EGLM 1 may be misplaced/lost when it is unlinked from attachment means 6d. It is preferable that there is an EGLM restraining means to prevent said misplacing and/or loss. A non-limiting means is shown in 13d wherein, a thread 15a is coupled at one end to garment part 10f at location 15b, and the other end of the thread is coupled to the EGLM at location 15. It will be appreciated that the non-limiting example of 13d may be used as a prior art button.

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It is preferable that one non-limiting embodiment of said reversible attachment means may include a plastic (preferably injection moulded) cylindrical means, with an open loop at one end preferably functioning, in part at least, as said GCFM 46.

40 It is preferable that the removal and/or undoing of one at least garments, in part at least, is facilitated by the uncoupling of one at least reversible attachment means from one at least EGLM.

45 It is preferable that part at least of the means described for one at least EGLM may be coupled to one at least reversible attachment means (non-limiting examples of which may include (6a, and/or 6b, and/or 6c, and/or 6d). As a non-limiting example, said reversible attachment means may include one at least of the following:-

- power means;
- electronics;
- power and/or signal conducting means;
- mechanical means (eg propulsion means, retaining means);
- power means recharging means.

50

55 Reference to 13e of Figure 2 shows a non-limiting example of an embodiment wherein said reversible attachment means 6e includes part at least of the means described for one at least EGLM. In this example the cylindrical means 12 of the previous non-limiting examples is showed as triangular in cross section, as a non-limiting example. The end part 91 of attachment means 6e is preferably able to rotate about the plane 90, preferably around axle 89 that preferably runs along the centre of triangular means 12. A EGLM receptacle means 8 of 13e is shown. In this embodiment receptacle means 8 preferably has a triangular cross section to accept triangular means 12. Receptacle 8 preferable has a n expanded end 94 that provides space for the preferably rotatable part 91 of attachment means 6e to rotate into a position that preferably prevents its removal until rotated back again. Said rotation is preferably facilitated by the means of the present invention. Non-limiting examples of rotation means preferably include one at least motor means 93 in one at least EGLM that drives a shaft means 94, and/or said rotation preferably may be facilitated by a motor means 88 preferably within the attachment means 6e.

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Reference to Figure 3 of the drawings may assist understanding the next part of the description of the preferred embodiment.

It is preferable that one at least EGLM's may be coupled to one at least other EGLM, in part at least preferably via one at least attachment means. Furthermore it is preferable that one at least said attachment means is flexible, in part at least. A non-limiting example is shown in 16a of Figure 3:-

- 5 • It is preferable that one at least reversible attachment means 6f may link to plural EGLM (1f and 1g, as non-limiting examples). It is preferable that one at least attachment means 6f may have one at least points of flexibility 214. It is preferable that said point of flexibility 214 may include rotation around one at least axes (as non-limiting examples around the x-axis 214a and/or the y-axis 214b and/or the z-axis 214c). It is preferable that the coupling of plural EGLM may include attachment means wherein one at least points of attachment is not a reversible means.
- 10

Block drawing 41 of Figure 3 shows a non-limiting example of a functional block diagram of one at least EGLM 1b. The top surface of said EGLM 1b is referenced as 63. The front surface is removed to show internal contents. The side that in this 15 non-limiting example accommodates one at least reversible attachment means 6, is represented by surface 20. The bottom surface is referenced as 64. The wall of the EGLM is referenced as 64, and is preferably constructed in part at least of plastic.

One at least parts of one at least garments 10b are shown attached to reversible attachment means 6. One at least parts of one 20 at least garments 10a are shown attached to a fixed attachment means. The attachment means 6 is preferably cylindrical in this embodiment. It is preferable that said cylindrical has some asymmetry (eg a coupled rectangular means 214) as shown in cross section in block drawing 40. Said asymmetry preferably provides a non-limiting example of an alignment means to facilitate correct alignment when said attachment means 6 is linked with the receptacle means 8. It is preferable that the receptacle means 8 has a corresponding means (not shown) to accommodate said asymmetry.

It is preferable that one at least retaining means (36) is included to preferably prevent unlinking of one at least reversible 25 attachment means 6. A preferred method is to have the retaining means 36 fit into a slot and/or hole 216 in the reversible attachment means 6.

It is preferable that one at least EGLM includes one at least propulsion means that preferably in the process of unlinking, propels one at least parts, of one at least garments and/or attachments, from one at least:-

- 30 • EGLM's, and/or
 • parts of one at least garments and/or attachments.

 • A non-limiting example of said propulsion means 22 preferably includes the use of the coiled spring means located at the end of receptacle means 8. It is preferable that when attachment means 6 is placed into receptacle means 8 that the spring of said propulsion means 22 is compressed. It is preferable that when the restraining means 36 is removed from contact with the attachment means 6, that said spring preferably extends forcibly, preferably propelling said attachment means 6 in part at least, from said receptacle means 8, preferably facilitating unlinking of one at least reversible attachment means.
- 35

40 A non-limiting example of a waterproofing means to protect part at least of the electronics and/or mechanical means of one at least EGLM from the washing/cleaning process, for example, protection against water and/or solvents; is represented by flexible membrane means 21. An end view is shown in block drawing 40 of Figure 3. In this embodiment said membrane is preferably sealed to the outside wall 20 of one at least EGLM, forming a sac that preferably isolates the environment and attachment means from the internal means of one at least EGLM.

- 45 • It is preferable that said waterproofing means is resilient and it is preferably of low friction to facilitate insertion/ removal of attachment means 6.

50 It is preferable that one at least EGLM includes a Retention Removal Means (RRM) 23 to facilitate removal of said retention means 36 from a location that prevents and/or impairs release of attachment means 6, to a location that facilitates release of said attachment means 6.

55 It is preferable that one at least EGLM includes a manual release means 38 to facilitate unlinking of one at least reversible attachment means from one at least EGLM. It is preferable that said manual means are coupled to one at least mechanical and/or electronic means.

- 60 • It is preferable that said manual means is protected from accidental activation.
 • A non-limiting example of said protection preferably may include recessing said manual means below the surface of the enclosure of one at least EGLM.

It is preferable that activation of said RRM 23 to facilitate release of said attachment means 6, is in response to one at least control signals 25 and/or power signals 26 that preferably originate from a control means 24 that is preferably coupled to one at least EGLM.

It is preferable that one at least EGLM is coupled to a power source means.

- it is preferable said power source is portable.
- It is preferable said power source may be recharged.
- it is preferable said power source is a battery and/or capacitor and/or light energy means (eg solar cell).
- 5 • it is preferable that said power source is within the case of said EGLM.
- it is preferable that the power source coupled to one at least EGLM may provide power for one at least second EGLM.
- it is preferable that when one at least second EGLM receives power from means coupled to one at least first EGLM, that said reversible attachment means may be used to conduct the power and /or signal means.

- 10
 - A non-limiting example of a power source means 29 is shown in block drawing 41 of Figure 3. The power source means is preferably a battery (eg Ni Hydride, Lithium, Rechargeable Lithium) and/or a capacitor means. It is preferable that a positive terminal 31 and ground terminal 30 are accessible to the environment. As a non-limiting example, this may facilitate recharging. It is preferable that said power source means 29 is coupled to the control means 24. Said coupled preferably includes a positive power rail (and/or circuit trace) 27 and a ground rail (and/or circuit trace) 28.
- 15

It is preferable that one at least EGLM includes an input and/or output means 35, that preferably interfaces processing and/or storage means coupled to control means 24, with external means.

- 20 It is preferable that in response to one at least input means (8) and/or in response to one at least control means coupled to one at least EGLM, that one at least reversible attached means is unlinked, preferably using propulsion means 22 to ensure a clean uncoupling.

25 Reference to Figure 4 of the drawings may assist understanding of the next part of the description.

30 Block drawing 60c of Figure 4 shows a non-limiting example of a preferred means of implementing one a Retention Removal Means (RRM) in one at least EGLM.

- It is preferable that there is tensioning means 73, that as a non-limiting example may be a coiled spring means, to assist the retaining means 36 to remain in position to retain one at least reversible attachment means 6. When said attachment means 6 is in place, it is preferable that spring means is extended in part at least, preferably pushing and holding said retaining means 36 in a location to retain said attachment 6. The unlinking of one at least reversible attachment means 6 preferably requires a force to be applied to said retaining means 36 in a direction that preferably frees said attachment means for unlinking. Said force is preferably sufficient to overcome that provided by tensioning means 73 plus any other resistance that may need to be surmounted.
- Non-limiting examples of said force preferably may be applied by one at least of the following non-limiting work means:-
 - a motor driving cogwheel 65 that preferably includes teeth 66 that engage with teeth 67 on retaining means 36;

- 40
 - an electromagnet 72 that preferably may be made to apply a magnetic attractive force on a magnetic means 74 (eg, iron);
 - manual release means that may include a handle means 79 external to one at least EGLM that is preferably coupled to a release coupling means 71 (eg a plastic rod) via a preferably flexible link 78, that is preferably sealed to a flexible membrane that preferably facilitates waterproofing of said EGLM,

- 45
 - - said force may be applied by pulling handle means 79;
 - the known art also describes deformation means 75 that may be made to change shape under the influence of an electric current, some means may contract and others may expand and/or otherwise deform; in the present example 75 is a contractile means coupled to retaining means 36 at location 77 and to an anchor means 76, preferably coupled to the enclosure of said EGLM; passage of current via 75 preferably contracts deformation means 75 applying a force on retaining means 36;
- 50

- 55 It is preferable that one at least work means is activated by passage of current through power conductors 68 and 69. Said conductors are preferably coupled to control means 24 and are preferably switched by means coupled to said control means 24.

Reference to Figure 5 of the drawings may assist understanding of the next part of the description.

60 Reference to the drawings may assist in understanding the following description of the preferred embodiment.

The input means of block drawing 35 of Figure 5 preferably include one at least externally supplied signals that are preferably received and/or processed by control means 24. Said externally supplied signal preferably may include, as non-limiting examples, one at least of the following:-

- Button switch (eg membrane switch) 101 that preferably generates one at least electrical signal to control means 24 when activated (eg when pressed); and/or
- Receipt of a radio frequency means via aerial 96; and/or
- Receipt of an infrared and or optical signal means preferably by photodetector 100; and/or
- microwave signal (eg, received by preferably internal aerial (40); and/or
- Receipt of a sound wave by audio input means 103, a preferred example including a microphone means; and/or
- Input signal means 107 from one at least coupled decorative means and/or one at least other EGLM, with the preferred means including electrical signals on a conductor means and/or fiberoptic.

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The output means of block drawing 35 of **Figure 5** preferably include one at least means that are preferably generated and/or processed by control means 24 and preferably transmitted to means external to said EGLM. Said externally transmitted means preferably may include, as non-limiting examples, one at least of the following:-

- R/F transmitter means 97; and/or
- I/R diode means 98; and/or
- optical LED means 99; and/or
- sound generating means 102 (the preferred examples including speaker and piezo means); and/or
- Output signal means 104, and/or Power Rails 105, and/or Ground Rails 106; to one at least coupled decorative means and/or one at least other EGLM, with the preferred means including electrical signals on a conductor means and/or fiberoptic.

25 **ID Means:** It is preferable that there is a means to identify one at least EGLM's, non-limiting examples may include one at least digital ID means:-

- that are unique to said EGLM's; and/or
- that are unique to a group of EGLM's;
 - it is preferable that one at least digital ID means may be modified after manufacture (eg, by the model and/or third parties);
 - it is preferable that there is one at least means to read and/or otherwise obtain information about said ID means;
 - said read is preferably by means internal and/or external to said EGLM;
 - said external may include a remote means;
 - it is preferable that said unique to a group may be to part at least of the EGLM coupled to one at least garments; and/or to garments in the possession of said model;

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It is preferable that said EGLM is coupled to one at least realtime clock and/or calendar means 127.

45

- It is preferable that there is a means to provide power to said realtime means.
- It is preferable that there is a means to read the contents of said realtime means.
- It is preferable that there is a means to modify the contents of said realtime means.

It is preferable that one at least EGLM's are coupled to *Limiting Means*, wherein said limiting means:-

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preferably may prevent, and/or restrict, and/or control, and/or condition as non-limiting examples, the unlinking (and/or any other means) of one at least EGLM's and/or any other means; preferably until one at least *End of Limit Means* (ELM) is- activated and/or enabled.

It is preferable that said ELM is coupled to said EGLM and/or said limiting means.

55

It is preferable that there is one at least *ELM Reset Means* to inactivate and/or disable and/or reset and/or set said ELM, as a non-limiting example.

Said ELM reset means is preferably coupled to said EGLM,

and

is preferably activated by means coupled to and/or remote to said EGLM.

One EGLM may not be allowed to unlink until receipt of a signal from one at least other means. Eg a first EGLM
5 may need to uncouple before a second. This may allow the sequenced unlinking of plural EGLM's.

Means to distinguish different channels.

Sequencing and/or concurrent unlinking of one at least EGLM.

10 Means to program one at least EGLM's with commands and or unlinking sequences etc.

Program valid activation sequences.

15 The present invention preferably describes means to reprogram codes that may be used to operate said EGLM's.

The present invention preferably includes means to reset said EGLM's such that new codes may be entered, as a non-limiting reason.

20 Storage Means eg, flash memory 131, ram 130, battery-backed RAM 129, eeprom 9not shown, DRAM 132.

Control means 24 preferably includes a microprocessing means and memory storage means.

25 The present invention allows that if the manual release is used to uncouple said EGLM that one at least audible (eg the word 'jerk') and or visual means be activated. One non-limiting reason for this may be to encourage uncoupling using said remote means.

The invention also allows for automated and/or remote means to facilitate the linking of a first part of one at least garments, to one at least second parts of one at least garments. zipper motor

30 It will be clear that the EGLM of the present invention may be adapted to use in more generalised locking means - non limiting example may include remote controlled padlocks and/or handcuffs.

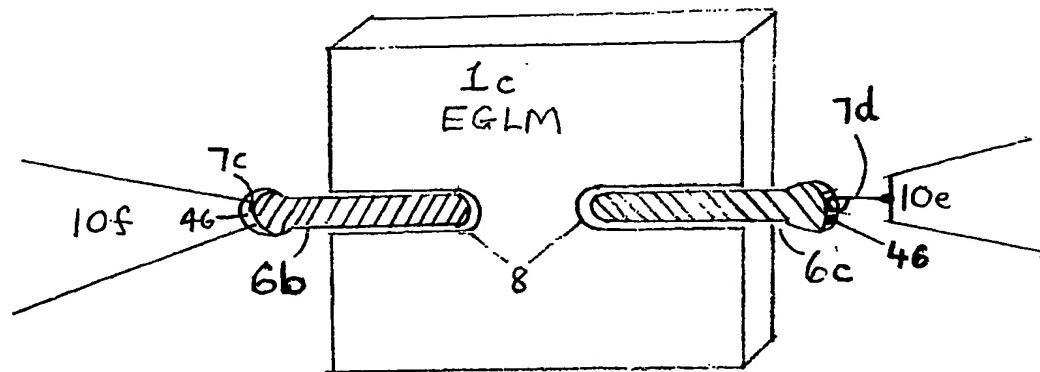
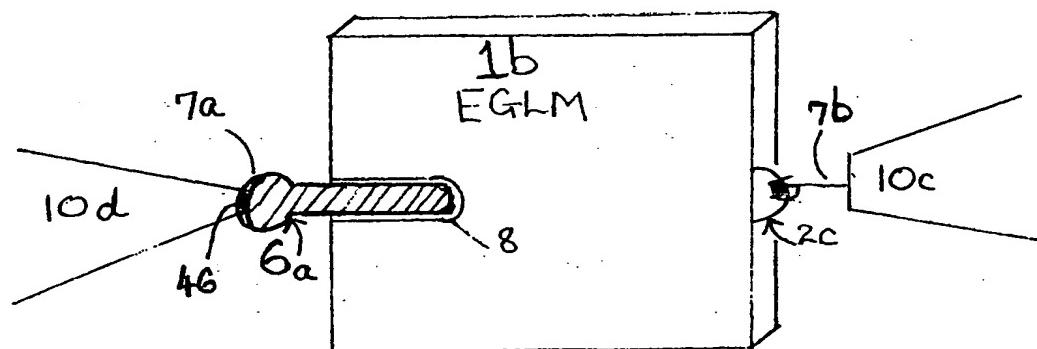
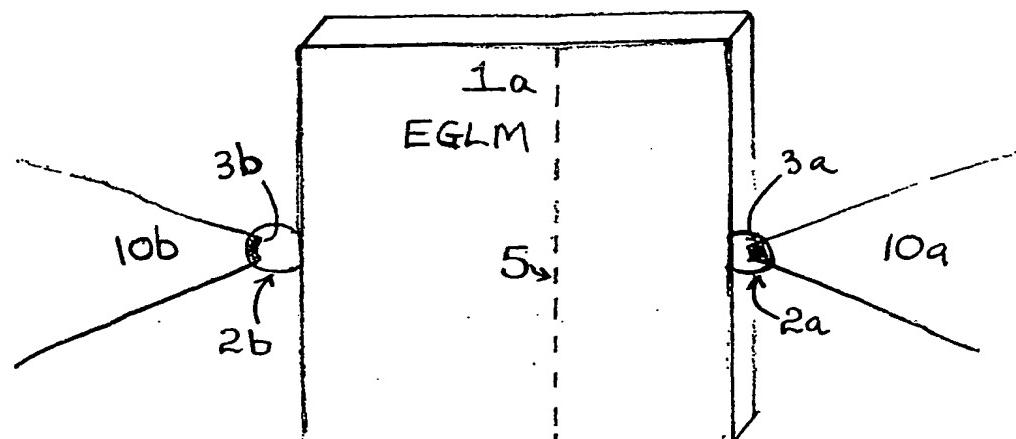
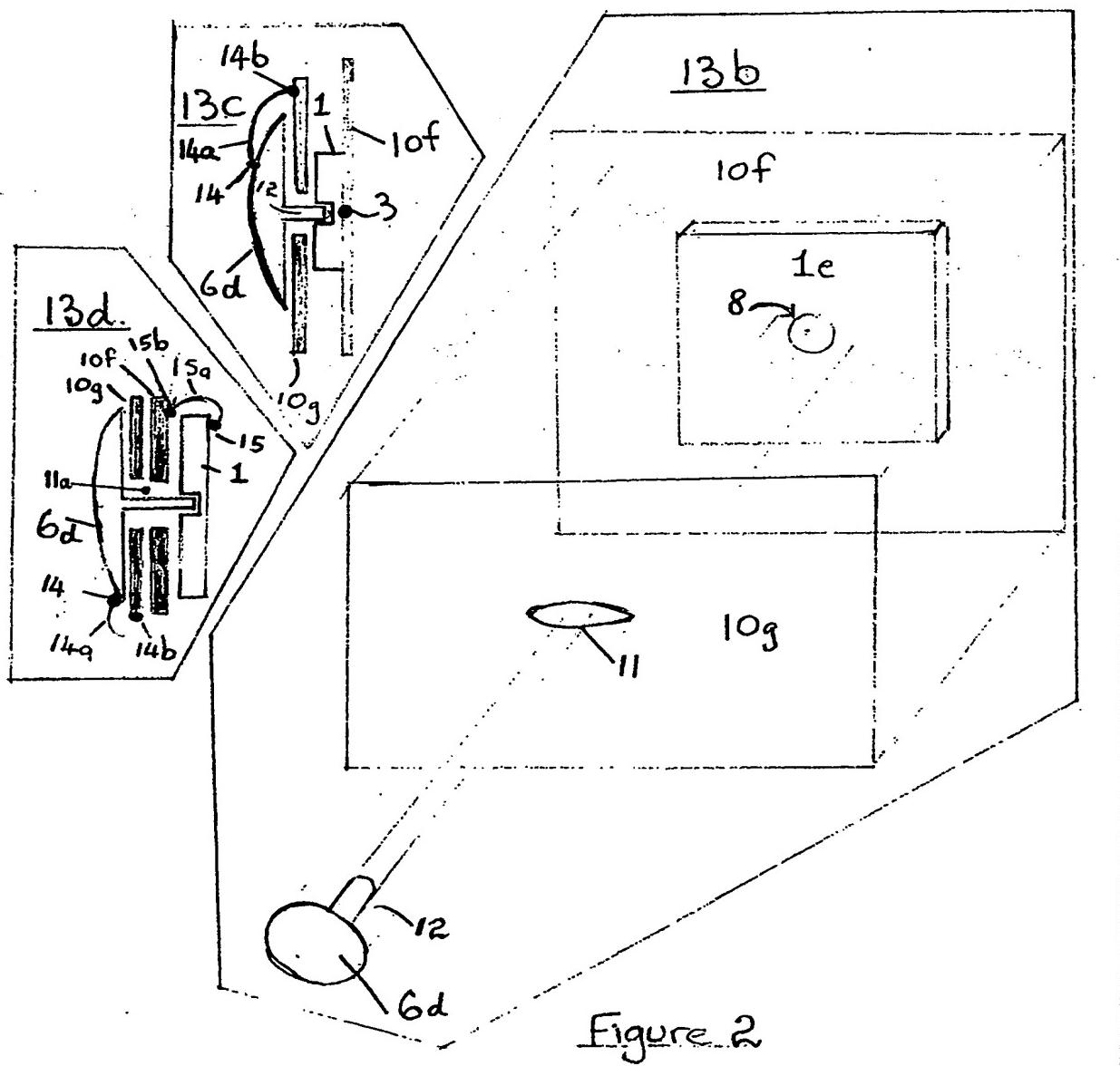
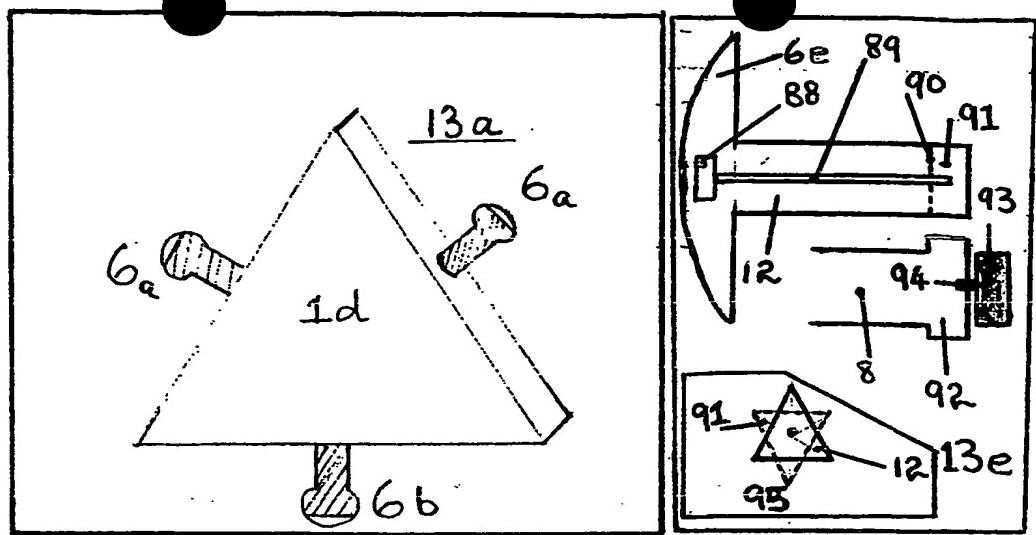


FIGURE 1.



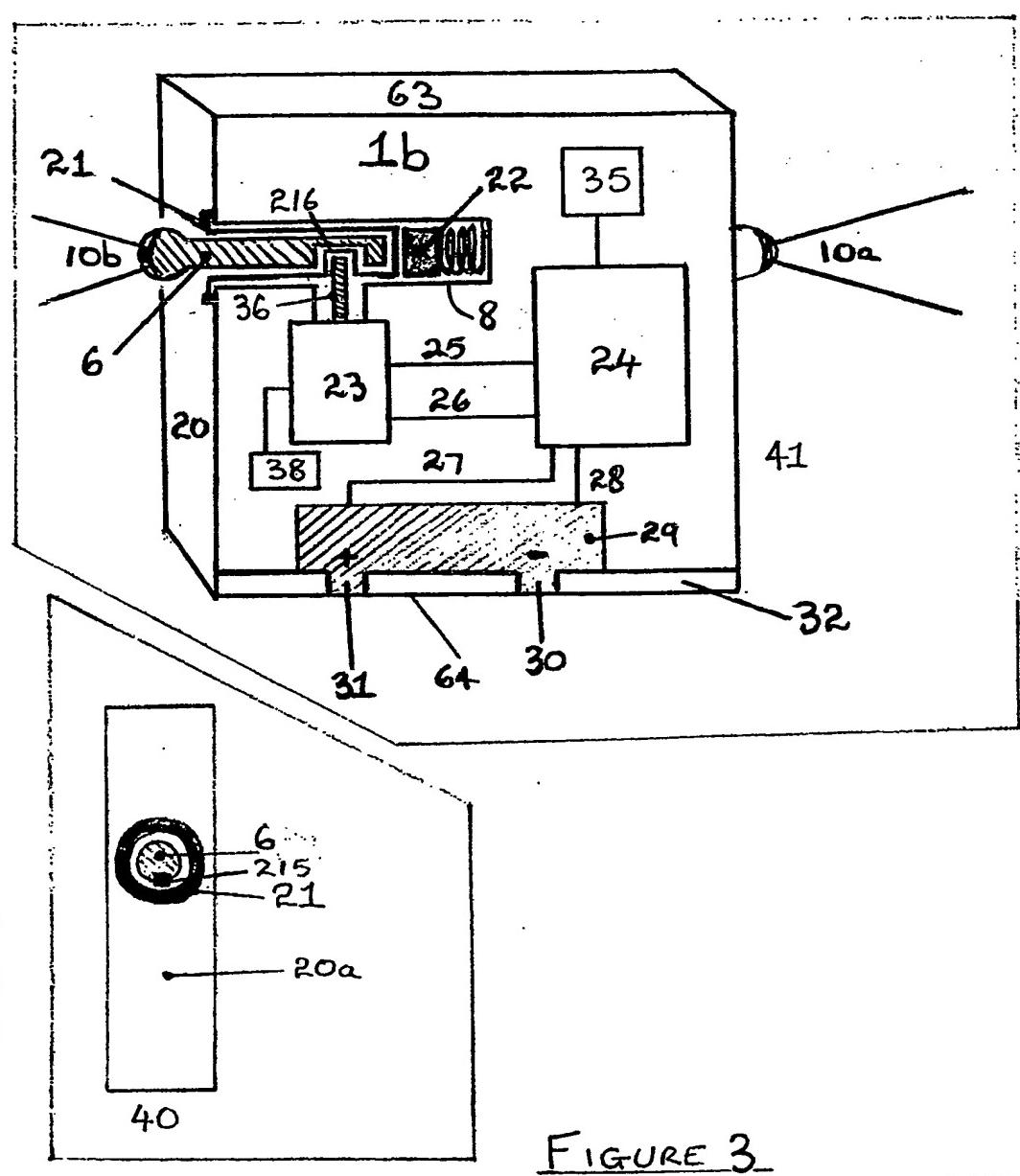
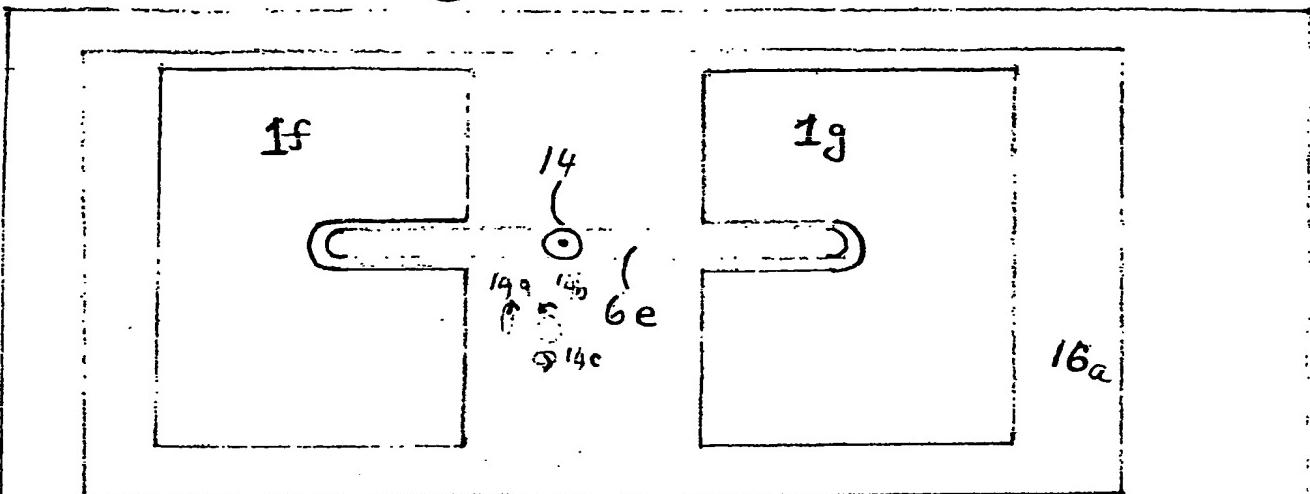


FIGURE 3

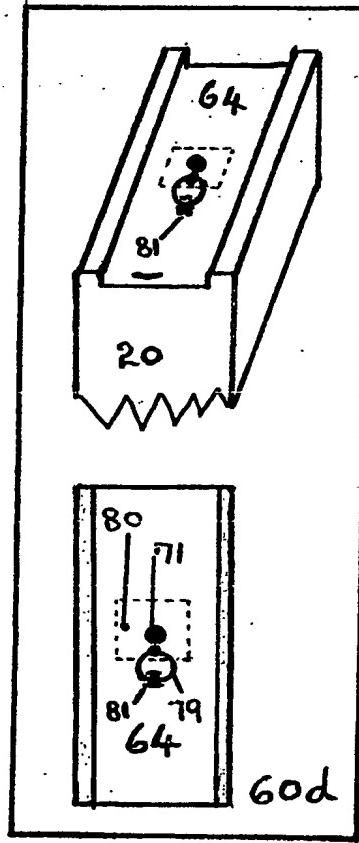
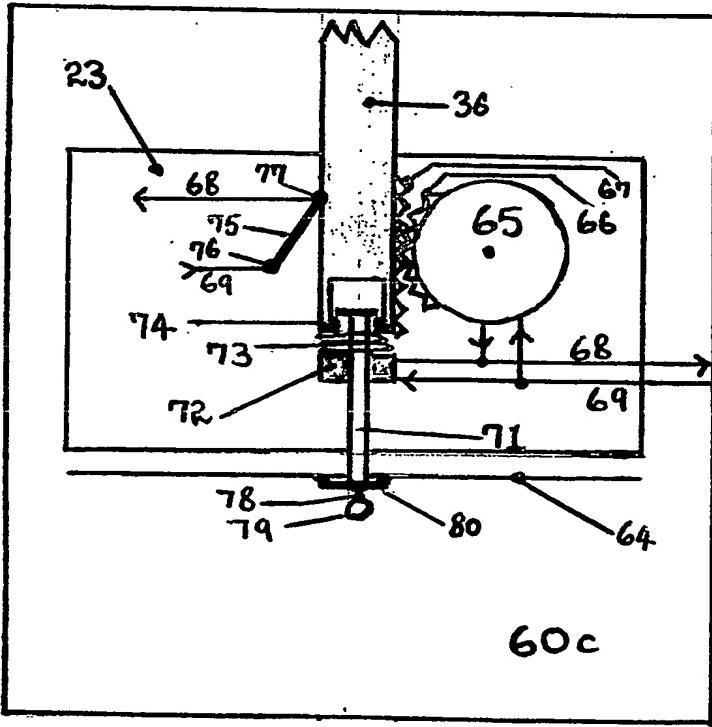
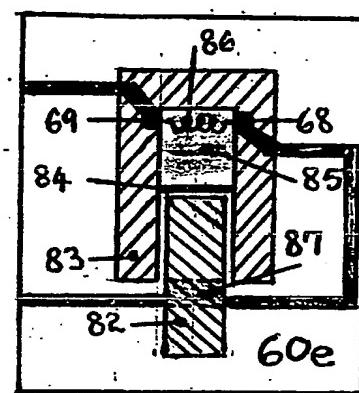
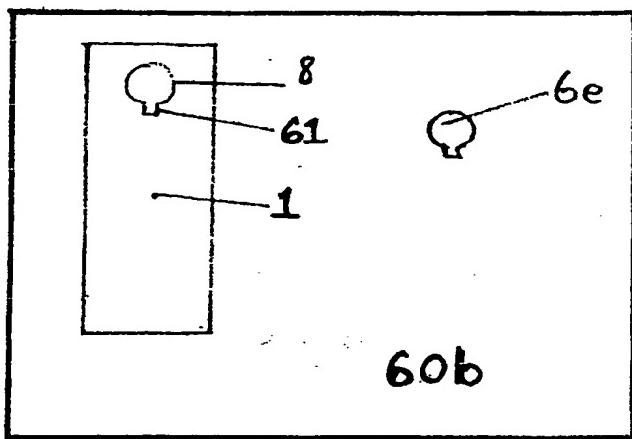
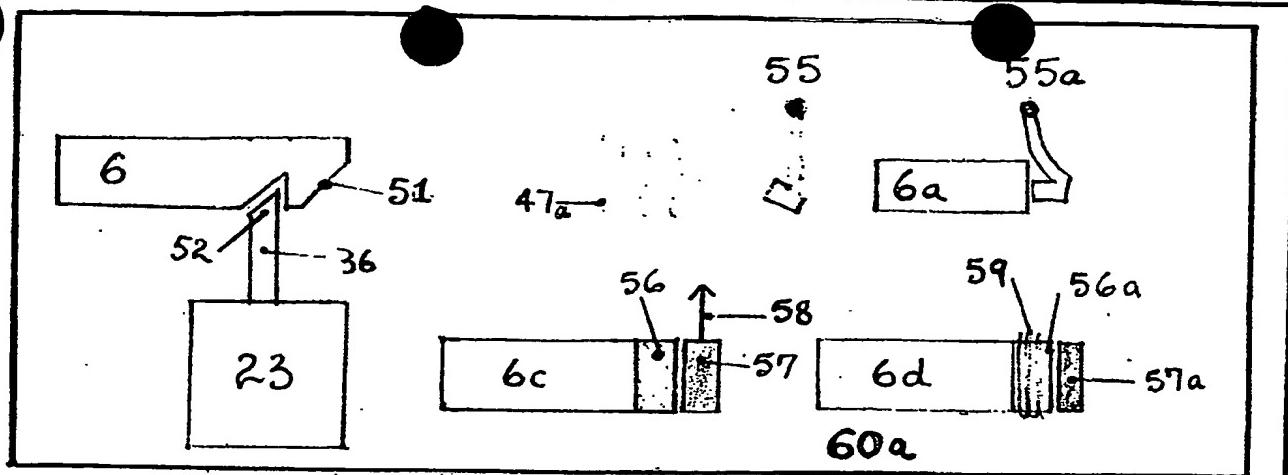


FIGURE 4

